Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
048PCT 0138	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/DE2004/000745	02.04.2004	07.04.2003		
International Patent Classification (IPC) or national	onal classification and IPC			
Applicant				
FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG				
E.V.				
This report is the international prelin	ninary examination report, established by this	International Preliminary Examining Authority		
under Article 35 and transmitted to th		mioritational resimana, Eminana - aminoral		
2. This REPORT consists of a total of	4 sheets, including	g this cover sheet.		
3. This report is also accompanied by A	NNEXES, comprising:			
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or				
sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
		siders contain an amendment that goes beyond		
the disclosure in the Box.	e international application as filed, as indicated	in item 4 of Box No. I and the Supplemental		
b. (sent to the International	Bureau only) a total of (indicate type and numbe	er of electronic carrier(s))		
S. Som to the International	our can only, a total of (maleule type and name			
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see				
Section 802 of the Administrative Instructions).				
4. This report contains indications relati	ng to the following items:			
Box No. I Basis of the	report			
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain obs	Box No. VIII Certain observations on the international application			
Date of submission of the demand Date of completion of this report		nis report		
Name and mailing address of the IPEA/EP	Authorized officer			
Facsimile No.	Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/DE2004/000745

Box	No. I	Basis of the report				
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.					
		This report is based on translations from the original language which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/o	oses of:			
2.	recei	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
		the international application as originally filed/furnished the description:				
		pages 1-17				
		pages*				
	\boxtimes	the claims:				
		nos. <u>1-21</u>	as originally filed/furnished			
		nos.*	as amended (together with any statement) under Article 19			
		nos.*	received by this Authority on			
		nos.*	received by this Authority on			
	M	the drawings:				
		sheets <u>1/6-6/6</u>	as originally filed/furnished			
		sheets*				
	\Box	sheets*				
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.			
3.	Ш	The amendments have resulted in the cancellation of:				
		the description, pages	· · · · · · · · · · · · · · · · · · ·			
		the claims, nos.				
4.			ments annexed to this report and listed below had not been made, since			
"	Ш	they have been considered to go beyond the disclosure as fil	ed, as indicated in the Supplemental Box (Rule 70.2(c)).			
		the description, pages				
	any table(s) related to sequence listing (specify):					
<u> </u>	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."			

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_ YES
_ NO
_ YES
_ NO
YES
_ NO

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents:

D1: US-A-5 146 515 (CHAO ZU-WEN ET AL) 8 September 1992 (1992-09-08).

The present application fails to satisfy the requirements of PCT Article 33(1) because the subject matter of claim 1 lacks novelty (PCT Article 33(2)).

Document D1 discloses (the references in parentheses are to said document) an arrangement for the optical determination of a distance from a reflective surface, light from a light source being directed onto said reflective surface via a first optical fibre and reflected light being directed away therefrom via the first optical fibre or at least one further optical fibre to at least one static optical detector (column 1, lines 7-28), the light directed onto the reflective surface (figure 1, [P1, P2]) and away from the reflective surface travelling via at least one collimating optical element directed

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

towards the reflective surface (column 2, lines 25-28 and lines 54-59) and at least two optical elements that focus in the direction of the reflective surface (column 2, lines 60-68), the optical axes of said optical elements being aligned in a direction that is parallel to the optical axis of the collimating optical element and being mutually spaced at a predetermined distance (figure 2).

3. Dependent claims 2-21 contain no features which, combined with the features of any claim to which they refer, meet the PCT requirements for novelty and/or inventive step. The features in question concern structural modifications of the kind that a person skilled in the art routinely makes on the basis of familiar considerations.